H523).

Luminescence of Systems With Hydrogen Bonds S/048/60/024/006/C27/030/XX B013/B067

molecular hydrogen bonds, Stokes' excitation always increases. The increase depends on particular values of  $\omega_0$  and  $\omega_1$  and may widely vary. As a consequence, the increase in Stokes' shift directly indicates the formation of a hydrogen bond in the system. This assumption was experimentally verified in several papers (Refs. 5-8). A table gives characteristic examples. Fig. 2 shows that the hydrogen bond in the electron spectrum appears only when its energy in the excited state W, differs from its energy in the ground state  $W_0$ ; when  $W_1 = W_0$ , no change takes place. With a sufficiently large difference between  $W_1$  and  $W_{\text{C}}$ , a rupture of the hydrogen bond is possible during absorption and emission. As a result, the values of  $\omega_{0}$ and  $\omega_1$  which determine the increase of Stokes' shift during the formation of a hydrogen bond, are strongly increased. Although always two bands would be bound to be present in the luminescence spectra of substances with hydrogen bonds, there are cases in which one of the bands is only weakly marked (Ref. 9) or even absent (Ref. 6). In experimental studies of the luminescent properties of a system with hydrogen bonds, the fact that the relatively weak appearance of the hydrogen bond is superposed by

stronger effects must be taken into account. These effects may be due to

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Luminescence of Systems With Hydrogen Bonds

S/048/60/024/006/027/030/XX B013/B067

completely different reasons, e.g., ionization. The absorption and luminescence spectra of substances with hydrogen bonds showed no mirror symmetry. This problem will be further studied. V. L. Levshin is mentioned. The present paper was read at the Eighth Conference on Luminescence (Molecular Luminescence and Luminescence Analysis) which took place in Minsk from October 19 to 24, 1959. There are 2 figures, 1 table, and 9 references: 4 Soviet, 2 US, 2 Japanese, and 1 German.

Card 3/3

IUTSKIY, A.Ye.; KOCRERGINA, L.A.; ZADOHOZHNYY, B.A.

Intramolecular hydrogen boming and dipole moments in organic compounds. Art 7: Frenylaso-, carboryl-, and carbomethoxy-substituted maphthols. Zhur. ob. khim. 30 no.12:4080-4085-1) 160.

(MIRA 13:12)

1. Khar'kovskiy politekhnicheskiy institut.

(Naphthol-dipole moments) (Hydrogen bonding)

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ZADOROZHNYY B.A.

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Naboykin, Yu.V., Dobrokhotova, V.K., Uglanova, V.V., Zadorozhnyy, B.A. and Malkee, L.Ya.

TITLE:

AUTHORS:

New organic single crystal scintillators

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1962, 57-59

TEXT: Anthracene is one of the most widely used scintillation crystals because of its high light output. However, there are difficulties associated with the preparation of single crystals of anthracene and it is chemically unstable, hence with long usage the single crystals deteriorate. Stilbene only has about helf the light output of anthracene but it is cheap and is therefore widely used. Other crystals such as tolane have a low light yield as that efforts were made to discover new scintillator materials. The effect of small admixtures on the luminescent properties of crystals has been investigated by a number of authors and in this paper is given a summary of all the data on the scintillation efficiency of the single crystals investigated. The light yield compared with stilbene is given and also the optimum concentration of admixture and the maximum in the radiated spectrum. It is shown Card 1/2

5/120/62/000/001/012/061 New organic single crystal scintillators E039/E520

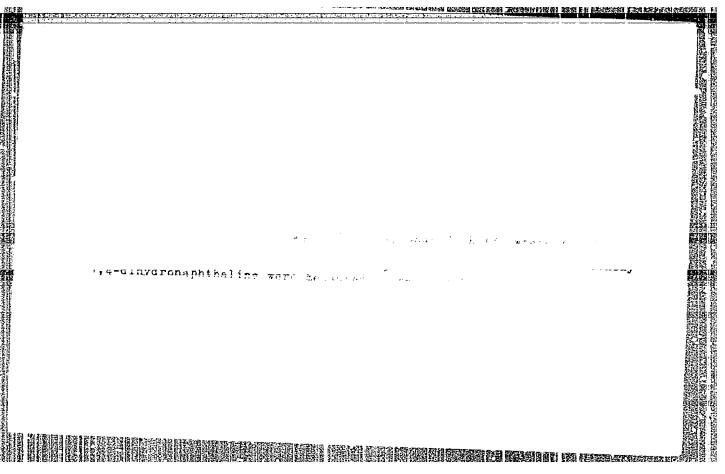
that single crystals of naphthalens with 1.2  $\pm$  di( $\beta$ -napthyl) ethylene and n-phenyl-stilhene admixtures not only have a high light yield (150% of stilbene) but have a luminescence time no greater than stilbene. They are also theap and hence should be widely used. Single crystals of diphenyl and diphenylene oxide have the advantage over naphthalene of being stable in air but have a lower light output. The dependence of light output on concentration of admixture is shown graphically. The addition of about 0.1% of 1.2 - di(β-napthy1)-ethylene or 1-(β-napthy1)-2-(n-bipheny1)ethylene to napthalene produces the maximum increase in sctillation officiency. The luminescent spectra of these new materials is also presented and it is apparent that the maxima in the spectra coincide with the region of maximum sensitivity of antimony-cosium There are 3 figures and 1 table. . photocathodes.

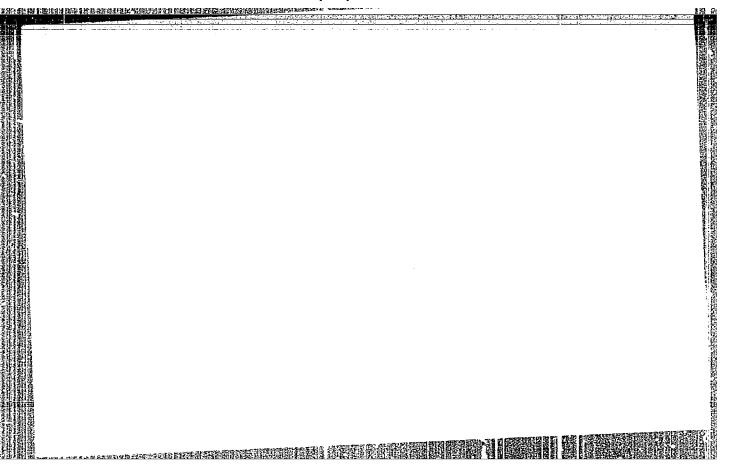
ASSOCIATION: Vsessyuznyy nauchno-issledovatel'skiy institut monokristallov, staintillyatsionnykh materialov i

osobo chistykh khimicheskikh veshchestv (All Union Scientific Research Institute on Sirgle Crystals, Scientific Research Institute on Sirgle Crystals, Scientillating Materials and Specially Pure Chemical Materials)
June 19, 1961 Card 2/2

SUBMITTED:

1. 4





5/058/62/000/004/111/160 A061/A101

AUTHORS:

Nadzhakov, G., Antonov. A., Zadorozhnyy, G.

TITLE:

Conditions for dark conservation of photoelectret photopolarization

PERIODICAL: Referativnyy zhurnal. Fizika, no. 4, 1962, 41, abstract 4E357

(Dokl. Bolg. AN, 1961, 14, no. 4, 329-332, English summary)

The conditions for dark conservation of photopolarization in photoelectrets consisting of single crystals or polycrystals of S, of polycrystalline TEXT: anthracene, of powdery S - CdS mixtures, and of a pressed anthracene - CdS mixture were investigated. The initial depolarization current on illumination of the polarized photoelectret was taken as the measure of photopolarization. The initial decrease of polarization is slowed down when the polarizing voltage is increased. The drop of photopolarization of the polycrystalline anthracene electret subjected to high pressure is slowed down when pressure is increased to 2 t/cm2. The degree of photopolarization drops at the same time. With electrets subjected to a pressure > 1 t/cm2, where the density of the photoelectret mass does not change any more, the characteristics of conservation and

Card 1/2

Conditions for dark conservation ...

\$/058/62/000/004/111/160 A061/A101

the degree of photopolarization do not change any longer. This is explained by the decrease of the number of electrons localized in shallow traps connected with the surface of individual crystalline particles of the electret.

V. Lyubin

[Abstracter's note: Complete translation]

Card 2/2

\$/058/62/000/004/113/160

AUTHORS:

Kashukeyev, N., Antonov, A., Zadorozhnyy, G.

TITLE:

On stationary distribution of the electric charge in photoslectrets

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 41, abstract 4E359 (Dokl. Bolg. AN, 1961, 14, no. 4, 333-336, English summery)

An expression is derived for the heterocharge density distribution TEXT: along the photoelectret with a single type of electron traps. It is found that the resulting charge is located in narrow zones  $\sim 10^{-5}$  cm thick, near the electrode. The dependence of the constant photoelectret charge on both the intensity of polarizing light and the strength of polarizing electric field is examined. The expression for the photoelectret charge is the same as the one obtained by E. I. Adirovich (RZhFiz, 1961, 11E129).

V. Lyubin

[Abstracter's note: Complete translation]

Card 1/1

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S/194/62/000/006/089/232 D413/D308

24,7700

Kashukeyev, N., Antonov, A., and Zadorozhnyy, G.

TITLE:

AUTHORS:

On the theory of the thermal depolarization of

photo-electrets

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,

no. 6, 1962, abstract 6-3-59 p (Dokl. Bolg. AN, v.14,

no. 5, 1961, 447-450)

TEXT: A general equation is derived for the depolarization that occurs in darkness. The assumption is made that the electrons freed from traps and migrating into the conductive zone recombine with stationary holes. The paper investigates the concentration of free electrons during depolarization in the dark, starting with a notion of the mechanism of the processes taking place when the electrodes are short-circuited. It is assumed that the trapping of electrons predominates over the recombination of electrons with holes, and that the concentration of trapped electrons is considerably lower than the concentration of traps. The results of the calculation permit a graphical determination of the depth of the local trapping Card 1/2

On the theory of the thermal ... S/194/62/000/006/089/232 D413/D308

level. 2 references. [Abstracter's note: Complete translation.]

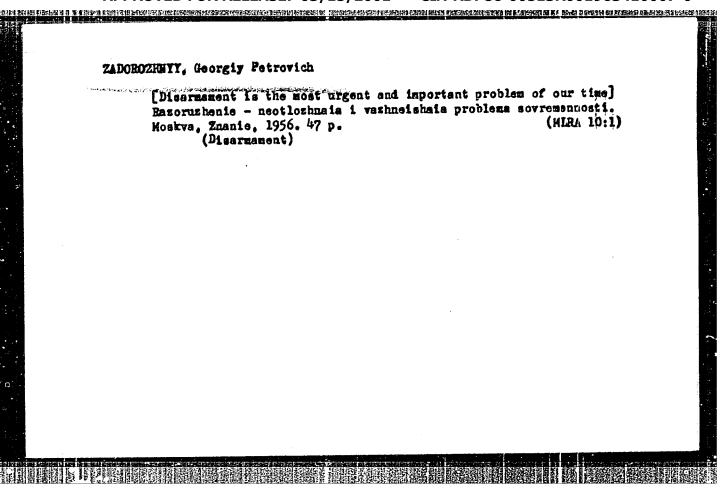
Card 2/2

NADZHAKOV, G., akad.; ANTONOV, A.; ZADOROZHNXX, G. [Zadoroshni, G.]

Influence of excitation on the photoelectret polarization of monocrystal sulfur in dark. Doklady BAN 15 no.8:805-808 '62.

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1. Chlen Redaktsionnoy kollegii, "Doklady Bolgarskoy Akademii nauk" (for Nadzhakov).



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PHASE I BOOK EXPLOITATION

SOV/2837

Zadorozhnyy, Georgiy Petrovich

Atom, kosmos, mirovaya politika (The Atom, the Cosmos, and World Politics) Moscow, Izd-vo In-ta mezhdunarodnykh otnosheniy, 1958. 79 p. 55,000 copies printed.

Ed.: B. L. Tsybulevskiy; Tech. Ed.: N. A. Belyayev.

PURPOSE: The pamphlet is intended for the general reader.

COVERACE: This propaganda pamphlet on the use of nuclear power and nuclear weapons by what the author calls the Anglo-American power bloc is a popular presentation of the subject of cosmic research. Special emphasis is laid upon the encirclement of the USSR by the United States. The author concludes with a plea for a constructive use of nuclear power.

TABLE OF CONTENTS:

Cosmic Space, Nuclear Weapons, Military Bases, and the International Situation

3

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US Military Bases and Rocket Bases Outside of America - a Dangerous Threat Capable of Provoking a Devasting Nuclear War  Necessity of Putting Nuclear Weapons Under a Ban in Order to Guarantee the Peaceful Co-operation of Nations Towards the Study of Cosmic Space and its Exploitation for Non-military Purposes	For Peace US Military Bases and Rocket Bases Outside of America - a Dangerous Threat Capable of Provoking a Devasting Nuclear War Necessity of Putting Nuclear Weavons Under a Ban in Order to Guarantee the Peaceful Co-operation of Nations Towards the Study of Cosmic Space and its Exploitation for Non-military Purposes For Negotiations and Against a Terrible Nuclear War!	erica — a Dangerous ar War in Order to Guarantee the Study of Cosmic Curposes	r Peace litary Bases and Rocket Bases O reat Capable of Provoking a Dev sity of Putting Nuclear Weapons e Peaceful Co-operation of Nati- ace and its Exploitation for No egotiations and Against a Terri	utside of America - a Dangerous asting Nuclear War Under a Ban in Order to Guarante ons Towards the Study of Cosmic n-military Purposes	13 31
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# ZADOROZHNYY, I.A. Over-all utilization of the various types of transportation in Kazakhstan. Zhel.dor.tranep. 43 no.2:15-17 F '61. (MIRA 14:4) 1. Nachal'nik Kazakhskoy dorogi, g. Alma-Ata. (Kazakhstan—Transportation)

ZADOROZHNYY, I.A. (Alma-Ata)

Large-unit continuous production line method for the repair of diesel locomotives. Zhel. dor. transp. 46 no.8:8-14 Ag '54. (MIRA 17:11)

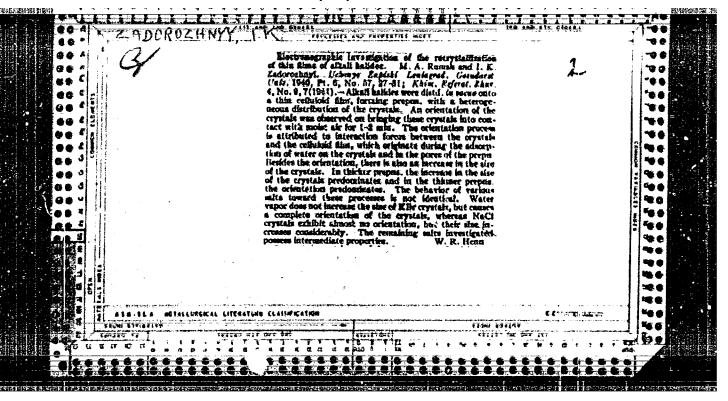
1. Nachal'nik Kazakhskoy dorogi.

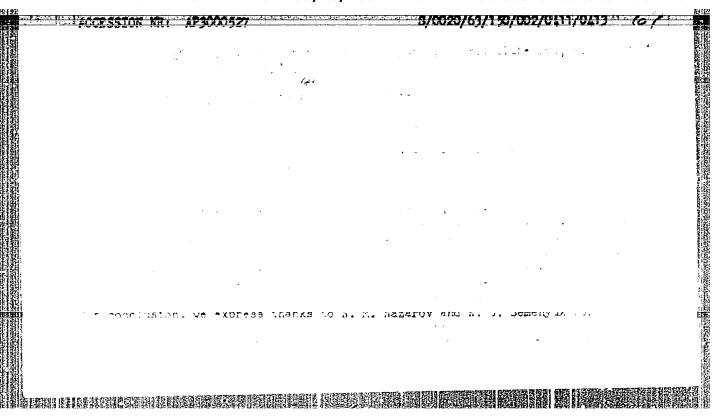
VINOGRADOV, A.P., akedemik; KUTYURIN, V.M.; ULIBEKOVA, M.V.; ZAKHAROVA, N.I.; ZADOROZHNYY, I.K.

Oxygen of photosynthesis and phosphates. Bokl. AN SSSR 150 no.21 411-413 My 163. (MIRA 16:5)

1. Institut geokhimii i analiticheskoy khimii im. V.I.Vernadskogo AN SSSR.

(Photosynthesis) (Oxygen) (Phosphates)





UESR/Chemistry - Lead Isotopes

ZALOTOZNIKY, T. E.

Aug 52

id 239731

"Isotopic Composition of Lead and the Age of the Earth," A. P. Vinogradov, Corr Mem Acad Sci USSR; I. K. Zadorozhnyy and S. I. Zykov, Inst of Geochem and Analyt Chem imeni V. I. Vernadskiy, Acad Sci USSR

"DAN SSSR" Vol 85, No 5, pp 1107-1110

Thirty-two samples of galena were studied with a mass spectrograph for the compn with respect to Pb<sup>204</sup>, pb<sup>206</sup>, pb<sup>207</sup>, and Pb<sup>208</sup>. On the basis of this and other data, the age of the earth is estimated to be between 2.1.109 and (5.0-0.5).109 years.

239F31

ZADOROZHNYY, I.K.; ZYKOV, S.I..

Constant decay of radioactive elements used for determining geological

age. Biul.Kom.po opr.abs.vozr.geol.form.no.1:67-76 '55.

(MIRA 9:16)

1. Institut geokhimii i analiticheskoy knimii imeni V.I. Vernadskogo

(Geological time) (Radioactivity)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963410007-0"

VINOGRADOV, A.P.; ZADOROZHNYY, I.K.; FLORENSKIY, K.P. Inert gases content in the Sikhote-Alin' meteorite. Geokhimia AW

SSSR no.6:443-448 157.

1. Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR, Hoskva.

(Sikhote-Alin'--Heteorites) (Gases, Bare)

(MIRA 11:2)

新祖国生化工程的公司基础社会的利益生产企业执行政的关键的经验的经验的经验的经验的经验的经验,该是经过的证实的经验的经验和<mark>原理的规则的理论的规则的理论的理论的对象经验的影響的经验识别</mark>的现在分词或是

ACCESSION NR: AP4042628

s/0007/64/000/007/0587/0600

AUTHORS: Vinogradov, A. P.; Zadorozhny\*y, I. K.

TITLE: Inert gases in stony meteorites

SOURCE: Geokhimiym, no. 7, 1964, 587-600

TOPIC TAGS: meteorite, inert gas, age determination/ HV 23 02 mass spectrometer

ABSTRACT: Twenty-one chondrites, three carbon-bearing chondrites, and one achondrite were examined for their contents of He, Ne, and A. The gases were extracted by heating the samples in a molybdenum crucible at 17000 for 30 min. Samples were crushed and given preliminary degassing treatment at 1500 for three hours. Isotopic analysis was made on an MV 23-02 180° mass spectrometer. The resolving power of the satup was greater than 2000. Measuring errors were computed to be 2-3% for He and 7% for Ne and A. Most of the stony meteorites contain inert gases that may be attributed to three different origins: primary, commogenic, and radiogenic. It is possible that some A may be of atmospheric origin as well (adsorption). Most of the investigated meteorites contain A and heavier inert gases, but less commonly contain He or Ne. The content and isotopic composition of inert gases from radioactive decay depend on the intensity and energy spectrum of cosmic

ACCESSION NR: APLOL2628

radiation, on the duration of irradiation, on the shielding effect, and on the chemical composition of the meteorite. The average isotopic ratios among decay products are 0.92 ± 0.02 for Ne<sup>21</sup>/Ne<sup>22</sup>, 5.4 ± 1 for He<sup>3</sup>/Ne<sup>21</sup>, and 8 ± 1 for Ne<sup>21</sup>/Ar<sup>38</sup>. Variation in the second ratio is due chiefly to cosmic radiation. No grouping of radiation ages was observed, but about 73% of the determinations gave values less than 10·10<sup>6</sup> years. Determinations of radiogenic age from He are generally smaller than those from K-A, probably because of relative losses through heating of the meteorites, but some are larger. The values range from 0.5 to 4.5·10<sup>9</sup> years. Me express our sincere thanks to L. G. Kvash and Ye. L. Krinov for supplying meteorite samples and making possible the completion of this work. Orig. art. has: 7 figures and 3 tables.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moscow (Institute of Geochemistry and Analytical Chemistry, AN SSSR)

SUBMITTED: OLMay64

ENCL: 00

SUB CODE: AA, NP

NO REF SOV: 007

OTHER: 03L

Card 2/2

KUTYURIN, V.M.; VOSKRESENSKAYA, N.P.; ULUBEKOVA, M.V.; GRISHINA, G.S.; ZADOROZHNYY, I.K.

Effect of the spectral composition of light on the fractionation of oxygen isotopes during its absorption by water plants. Fiziol. rast. 11 no.1:7-12 Ja-F '64.

(MIRA 17:2)

l. Institut geqkhimii i analiticheskoy khimii imeni Vernadskogo AN SSSR i Institut fiziologii rasteniy imeni K.A. Timiryazeva Akademii nauk SSSR, Moskva.

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S/020/60/134/006/031/039 B016/B067

17.1156

AUTHORS:

Vinogradov, A. P., Academician, Kutyurin, V. M.,

Ulubekova, M. V., and Zadorozhnyy, I. K.

TITLE: Isotopic Composition of the Oxygen of Photosynthesis and

Respiration

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 6,

pp. 1486-1489

TEXT: In an earlier paper (Ref. 1) the authors had arrived at the conclusion that the difference between the isotopic composition of the oxygen of photosynthesis and of water oxygen can be explained. This is due to the fractionation of the oxygen isotopes during respiration, which enriches the oxygen remaining after respiration with 0<sup>18</sup> thus making it heavier. Since photosynthesis and respiration take place simultaneously, the oxygen analyzed is that which was not consumed in respiration. Its isotopic composition depends on the ratio of the intensities of these two processes, furthermore on the fractionation coefficient of the oxygen isotopes during respiration. The authors are of the opinion that the mean

Card 1/3

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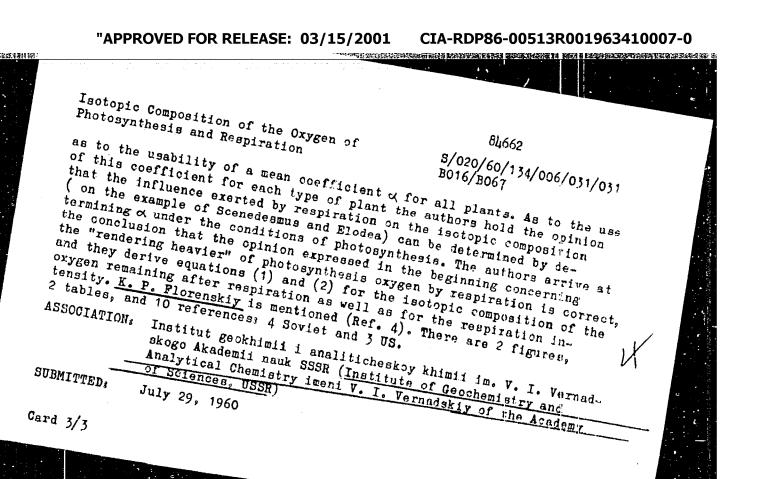
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Isotopic Composition of the Oxygen of Photosynthesis and Respiration

Card 2/3

S/020/60/134/006/031/031 B016/B067

value of this coefficient & = 1.018 assumed in publications (Ref. 5) can hardly be used for the calculations in the individual case. To detarmine the quantitative influence of respiration on the isotopic composition of the oxygen of photosynthesis they tried to determine simultaneously the of respiration and the isotopic composition. For this purpose they used cultures of Scenedesmus obliquus and the water plant Elodea canadensis which were investigated in an apparatus (Fig. !). Fig. 2 shows the apparatus used for the purification of the gas. The experiments with both types of plants were made with an exposure of 5500 lux and at pH 7. The remaining conditions are given in Tables 1 and 2. The data obtained (Table 1) show that the fractionation coefficient of the oxygen isotopes during the respiration of both plants depends on the physiological state of the plants. In endurance tests (18-20 h), when plants are starving, the respiration intensity is reduced to 1/5 to 1/10, while the coefficient of nowever, rises, i.e., the degree of fractionation increases under unfavorable conditions. This recalls the metabolism of sulfur bacteria (Ref. 7). The difference between the fractionation coefficient of Scenedesmus and Elodea indicates the specifity of the oxygen metabolism in different types of plants. This confirms the above mentioned doubte



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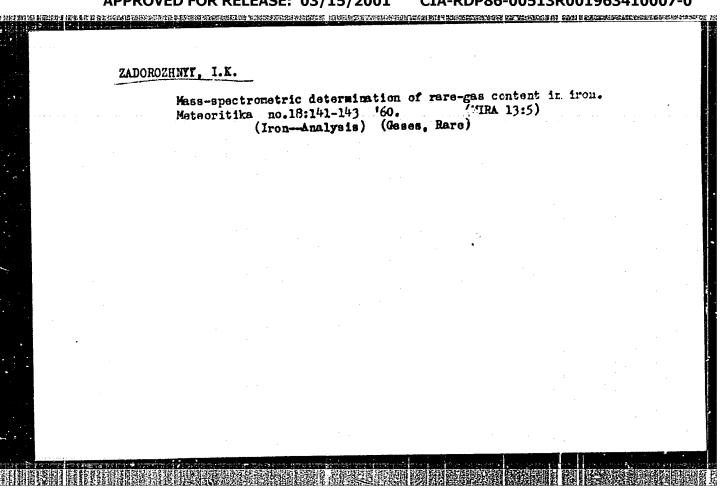
KHITROV, L.M.; ZADOROZHNYY, I.K.

DELICATION DELICATION DESCRIPTION DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTIO

Fractionation of oxygen isotopes in soil. Pochvovedenie no.1:5-14 Ja \*60. (MIRA 13:5)

l. Institut geokhimii i analiticheskoy khimii imeni V.I., Vernadskogo AN SSSR. (Gases in soils) (Oxygen--Isotopes)

THE RESIDENCE OF THE PROPERTY VINOGRADOV, A.P., akademik; ZADOROZHNYY, I.K.; KNORRE, K.G. Argon in neteorites. Meteoritika no.18:92-99 160. (HIRA 13:5) (Meteorites--Analysis) (Argon)



17(1) AUTHORS: Vinogradov, A. P., Academician, Kutyurin, V. H., SOV/20-125-5-54/61

Ulubekova, M. V., Zadorozhnyy, I. K.

TITLE:

The Isotopic Composition of Photosynthetic Oxygen (Izotopnyy

sostav kisloroda fotosinteza)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 5, pp 1151-1153 (USSR)

ABSTRACT:

The oxygen mentioned in the title occurs in water and is the result of dehydrogenation (Refs 1,2). The attempt was made to interprete the difference between the isotopic composition of cxygen occurring in water and obtained from the photosynthesis (1 - 2.57) as a methodical mistake or by an exchange between oxygen separated in the photosynthesis and cellular water (Ref 3). Without knowledge of the mechanism of oxygen separation in the photosynthesis the probability of such an exchange could not be denied (Ref 3). This exchange was, however, soon refuted: in the electrolysis (Ref 4) as well as in the case of the catalase effect (Ref 5) no exchange takes place between O<sub>2</sub> and H<sub>2</sub>O, OH, HOOH as well as -O-O-. Since it

was therefore necessary to define precisely the composition mentioned in the title, especially for marine organisms, the authors

Card 1/3

The Isotopic Composition of Photosynthetic Oxygen

SOV/20-125-5-54/61

investigated the topic mentioned with the water weed (Elodea canadensis) (fresh water), on the one hand, and with phytoplankton (mainly Diatomaceae algae, sea water), on the other hand. The photosynthesis took place in water treated with argon free from oxygen (02-content 0.3-1 ml/liter) at sunny weather and under optimum conditions. Table 1 shows the results. The disturbing effect of the residual respiration oxygen, which was heavier in consequence of preferred absorption of Olo, was eliminated as far as possible by repeated extraction of the oxygen produced by photosynthesis. The method used for fresh water and the water weed had to be replaced by that of Winkler for marine plenkton since the extraction of oxygen weakened the intensity of the photosynthesis. The average value of the isotope content of the photosynthetic oxygen of marine phytoplankton (0.2002) (018 related to 017; the small content of 017 was neglected) is higher only by 0.000%, i. e. higher by 1.0 w than that of sea water (mass-spectrum determination in Table 2). This means that 90% of the photosynthetic oxygen occurs in water. In the case of the water weed a similar calculation yields 82%. In the experiments with the

Card 2/3

The Isotopic Composition of Photosynthetic Oxygen

507/20-125-5-54/61

water weed the respiration intensity was not determined. By eliminating the respiration the isotopic composition of photosynthetic oxygen approaches in all cases that of water so far that undoubtedly the total photosynthetic oxygen occurs in water. Inconsiderable deviations of the isotope content in photosynthetic oxygen from the isotopic composition of water in the experiments with the water weed and in the experiment Hr 2 with marine phytoplankton resulted from the deviation of the fractionating coefficients of the oxygen isotopes in the respiration from the assumed average value. There are 2 tables and 8 references, 2 of which are Soviet.

SUBMITTED:

January 16, 1959

Card 3/3

3(7),3(9) AUTHORS:

为我们是在中国的时间的工程的发生的对象的现在分词,但是一个人,但是一个人,但是一个人,但是一个人,但是一个人,但是一个人,但是一个人,但是一个人,但是一个人,可

Vinegradov, A. P., Kutyurin, V. M., Zaderozhnyy, I. K.

307/7-59-3-1/13

TITLE:

Fractionation of the Lastores of Atmosphesic Oxygen (Fraktsionisovaniya izotopov atmosfernogo kislorda)

PERIODICAL:

Geokhimiya, 1959, Nr 3, FP 195-205 (USSR)

ABSTRACT:

Compared with the oxygen of the hydrosphere and of photosynthesis, atmospheric oxygen has a higher content of the isotope 0<sup>18</sup> (Table 1). The present paper was written for the purpose of explaining this difference. The two-beam mass spectrometer MS-2 was used for measurements, and atmospheric exygen was used as standard. Investigations were carried out of the oxygen of the photosynthesis of diatom algae carried out at the Sevantopoliakaya biologiahaskaya stantsiya (Chernoye more) (Sevantopoli Biologiahaskaya stantsiya (Chernoye fresh-water plant Eloise Ganadensis (Table 2). Herefrom results

a overficient of 018 enrichment in the atmosphere of 1.018. Moreover, fractionation in the soil was investigated: A

Card 1/3

minimum erfect (a=0.997) occurred only in the case of considerable humidity. A thorough investigation was carried cut of

Fractionation of the Isotopes of Atmospheric Oxygen

504/7-55-3-1/13

fractionation in the sceam. The samples were collected during the second voyage of the Morekaya Antarkticheskaya ekspeditsiya ns d/e "Ob!" (Antarctic Sea Expedition of the Diesel-electric vessel "Oti"). The points where samples were taken are shown on a chart. Samples were taken from various depths at each place (Table 3); for 5 places the variation of the total oxygenand 0<sup>18</sup> content with depth is graphically represented (Figs 2-6). The fractionation coefficient is 7.010; this is not sufficient in order to be able to explain the high 018-content of the atmosphers. According to the authors this content is a function, of the CO -content of the aurosphere. The reason for this is the dissociation of CO2 in the stratesphere. This would provide the possibility of drawing ecnolusions from the isotoperatio in fessils with respect to the concentration of CO2 in the pravious atmosphers. There are 7 figures, 3 tables, and 13 references, 5 of which are Soviet.

Card 2/3

Fractionation of the Isotopes of Atmospheric

507/7-59-3-1/13

Oxygen

ASSOCIATION:

Institut geckhimii i analiticheskoy khimii im. 7. I. Vernadskego AN SSSR, Moskva (Institute of Goochemistry and Analytical Chemistry imeni V. I. Vernadskiy, AS USSR Moscow)

SUBMITTED:

January 14, 1959

Card 3/3

Ten to twelve tons of emulsion per hour. Avt. dor. 24 no.2:30 (MIR. 14:9)
Ag '61.

(Bitumincus materials) (Mixing machinery)

18.0000,28.1000

75965 8**0V/**133-59-10-26/39

AUTHORS:

Gorodetskly, L. H., Zadorozhnyy, L. S., Emginer v

TITLE:

Automation of Ingot Buyer Control

PERIODICAL:

Stal', 1959, Nr 30, p 932 (USSE)

ABSTRACT:

Ingot buggles were completely automated by the Introduction of a trolley network, double terminal switches, rapidaction brakes, and photoelectric cells to enable stripper and tong crane operators to control ingot buggles. A special circuit was developed which works reliably as long as crane operations proceed in a certain order. Manual control is also provided in case of failure of

one of the photorelays.

ASSOCIATION:

Plant imeni Petrovskiy (mavod imeni Petrovskogo)

Card 1/1

### CIA-RDP86-00513R001963410007-0 "APPROVED FOR RELEASE: 03/15/2001

75582 SOV/130-59-10-14/20 25.1000

Gorodetskiy, L. N. (Assistant Chief of Rail-Bean Shop), Zadorozhnyy, L. S. (Shop Foreman), Shereshev-AUTHORS:

skaya, R. M. (Senior Engineer of Central Plant

Laboratory)

发生计算目的 USE 计通道 还有 "你还许用证是任何"在18%以开始了一个条件,但是是大学就是19%的证据的人,这个时间的主义的是一个。但是这个时间的主义和自己的主义和

Increased Life of Cutters for Cutting Hot Metal TITLE:

Metallurg, 1959, Nr 10, pp 27-28 (USSE) PERIODICAL:

In the railbeam shop of Plant imeni Petrovskiy ABSTRACT:

(zavod imeni Petrovskogo) cutting edges of cutters are built up with 3Kh2V8 alloy steel. After forging and machining 45-steel cutters are annealed from 810 C. An automatic ABS-type welding head is used and work is done submerged in AN-20 flux of the

following composition (%):  $S10_2$ : 19-24,  $A1_20_3$ : 27-32, CaF<sub>2</sub>: 25-33, MgO: 9-13, CaO: 3.0-9.0, K<sub>2</sub>O:

2.4-3.0, FeO and MnO: maximum 1.0 and 0.5, respectively, S: 0.08, P: 0.05. Maximum flux moisture: Card 1/3

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Increased Life of Cutters for Cutting Hot Metal.

75582 507/130-59-10-14/20

O.1%. Electrode wire PP3Kh2V8 made of powdered material and direct reverse polarity current of 420 to 450 amp are used. Arc voltage: 32 to 34 v, speed of arc motion: 22 m/h, speed of wire feed: 56 m/h. The latter can varied by interchangeable gears within the range of 28.5 to 255 m/h. The built-up cutter is placed in a furnace heated to 400 C. The furnace is turned off and slowly cooled with the cutter. Tempering for 2 hrs at 300 C follows. Hardness: 45 to 49 R.. Chemical composition of built-up metal (%): C: 0.29, MM: 0.89, Si: 0.92, Cr: 2.5, W: 9.37, V: 0.33, S: 0.030. Average cutter life: 498 hours. The use of built-up cutters reduced their consumption by thirty times. There are 2 figures.

Card 2/3

Increased Life of Cutters for Cutting Hot Metal

SOV/130-59-10-14/00

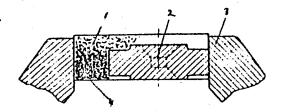


Fig. 2. Diagram of cutter setting before building up: (1) cutter; (2) flux; (3) vise; (4) box.

ASSOCIATION: Plant imeni Petrovskiy (Zavod imeni Petrovskogo)

Card 3/3

# GORODETSKIY, L.N.; ZADOROZHNYY, L.S.

Mondriven marking device on rail and girder mills. Metallurg 6 no.7:25-26 Jl. \*61. (MIRA 14:6)

1. Rel'sobalochnyy tsekh zavoda im. Petrovskogo. 2. Pomoshchink nachal'nika rel'sobalochnogo tsekha po oborudovaniyu, zavod im. Petrovskogo (for Gorodetskiy). 3. Kaster rel'sobalochnogo tsekha zavoda im. Petrovskogo (for Zadorozhnyy).

(Rolling mills--Attachments)

SOLOD'RO, D., prokhodchik; ZAKHAROV, A., rabochiy ochistnogo zaboya;
ZADOROZHHYY, M., vzryvnik; HOVIKOV, V., rabochiy ochistnogo
zaboya; MASLIKOV, D., buril shchik; YURCHENKO, I., gornyy zaster;
ZARETSKIY, P., brigadir elektrikov; RASSKAZOV, L., litsotrudnik
shakhtnoy gazety; VIZEN, I.; DOXUCHAYEV, A.

Our imspection raid. Mast.ugl. no.10:11-13 0 '59. (HIBA. 13:3)

1. Revdovaya brigada zhurnala "Master uglya." 2. Literaturnyy sotrudnik zhurnala "Master uglya." (for Vizen, Dokuchayev).

(Donets Basin--Coal mines and mining)

(Kine management)

S/020/60/132/03/36/066 B011/B008

5.3700(B)

AUTHORS: Ponomarenko, V. A., Zakharov, Ye. P., Zadorozhnyy, N. A.,

Fetrov, A. D., Corresponding Member AS USSR

TITLE: On the Peculiarities of the Effect of the Silyl-groups.

The Chlorination of the Alkyl-chloro-silicon-hydrides

PERIODICAL: Boklady Akademii nauk SSSR, 1960, Vol. 132, No. 3,

pp. 619-622

TEXT: In the paper under review the authors continued their investigations on the induction influence of the silyl- and germyl-groups on the properties of the bond neighboring the Si, as well as of that further away from it. In the further development of these investigations they studied the photochemical chlorination of the alkyl-silane-chlorides of the following series: (C2H5)2SiH2, (C2H5)3SiH, (CH3)(C2H5)2SiH, (CH3)(C2H5)(Cl)SiH, (C2H5)°(Cl2)SiH, (CH3)(Cl)2SiH and Cl3SiH. SO2Cl2 served for the chlorination under conditions worked out lately by M. G. Voronkov and V. P. Davydova (Ref. 11). Furtherzore, the Card 1/4

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963410007-0"

On the Peculiarities of the Effect of the Silyl-groups. The Chlorination of the Alkyl-chloro-silicon-hydrides S/020/60/132/03/36/066 B011/B008

authors wanted to study the influence of the electric negativity of the chlorine atoms, and of the alkyl- and aryl-groups on the oscillation frequencies of the Si-H bonds in some silicon mono- and dihydrides. The data in Table 1 concerning the "competing" chlorination of the Si-bonds of the hydrides mentioned above proved the expectations of the authors. They expected that the transition from (C2H5)3SiH to Cl3SiH

must retard the chlorination of the Si-bonds rapidly. The series of the relative activity thus corresponds completely to the increasing electric negativity of the silyl-groups (Table 2). It is surprising that only the Si-H-bonds are chlorinated here, but never the C-H-bonds of the alkyl-chloro-silicon—hydrides, although they can, as a rule, also be chlorinated, as known. This differing behavior of both bonds is connected with the specificity of the Si-H-bond and the Si-atom itself. The Si-atom distinguishes itself, contrary to carbon, by an increased electrophily. On the basis of these data, the formation of mainly  $(C_2H_5)_2$ SiHCl could be expected at the photochemical radical-

Card 2/4

On the Peculiarities of the Effect of the Silyl-groups. The Chlorination of the Alkyl-chloro-silicon-hydrides S/020/60/132/03/36/066 B011/B008

1234

chlorination of the diethyl-silane with SO2Cl2. At the chlorination of the  $(C_2H_5)_2SiE_2$  the authors obtained actually only diethyl-chlorinessilane. An analogous result was obtained at the "competing" chlorination of a mixture from  $(C_2H_5)_2SiH_2$  and  $(C_2H_5)_3SiH$ . The separation of the induction—, the steric— and other effects of the group  $R_nX_{-3n}$  on the

basis of the data of the reactivity is difficult. The data on the oscillation frequencies of the Si-H-bond may to some degree be helpful for the solution of this difficult problem (Refs. 7,8). According to the opinion of the authors it would be best to utilize the groupe electric negativities of the silyl-groups for the transition from the oscillation frequencies to the electric negativities. They refer to their previous papers (Refs. 13,14) and state in conclusion that the effective electric negativity of the silyl-group is considered to be the sum of the influences of the 3 substituents connected with Si. The effective electric negativity of other silyl-groups is determined by the summation of the values of the 3 substituents which form the

Card 3/4

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963410007-0"

On the Peculiarities of the Effect of the Silyl-groups. The Chlorination of the Alkyl-chloro-silicon-hydrides

S/020/60/132/03/36/066 B011/B008

corresponding silyl-group. The values of the oscillation frequencies of the Si-H- and Si-D-formations are easily determined on the basis of the equation mentioned. Table 2 shows a good agreement of the computed and the experimentally determined values. The substances produced by the authors are: di-(m-trifluoro-methyl-phenyl)-silane(I), di-p-tolyl-silane (II), bis(\gamma,\gamma,\gamma,\gamma,\gamma\text{silane}(II), methyl-(m-trifluoro-methyl)-phenyl-silane (IV), methyl-p-tolyl-silane (V), methyl-\gamma,\gamma,\gamma,\gamma,\gamma-trifluoro-propyl-silane (VI), methyl-\gamma,\gamma,\gamma,\gamma,\gamma-trifluoro-propyl-silane (VI), methyl-\silane silane (VII). There are 2 tables and 14 references, 10 of which are Soviets.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo

Akademii nauk SSSR (Institute of Organic Chemistry imeni

N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED:

February 17, 1960

Card 4/4

KHIDEKEL', M.L.; YEGOROCHKIN, A.N.; PONOMÄRENKO, V.A.; ZADOROZHNYY, N.A.; RAZUVANEV, G.A.; PETROV, A.D.

在表现,我们的证明,我们就是这种的证明,我们就是这些的证明,我们就是这种的证明,我们就会的证明,我们就会的证明,我们就会说话,我们就会会会会会会会会会会会会会的

Nuclear magnetic resonance of silicon hydrides. Izv. AN SSSR. Otd.khim.nauk no.6:1130-1132 Je '63. (MIRA 16:7)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR. (Silicon hydrides--Spectra)

YEGOROCHKIN, A.N.; KHIDEKEL', M.L.; PONOMARENKO, V.A.; ZADOROZHNYY, N.A.

在技術的觀思與到10日年產者民族就是的經過時間的經過過去時期,經過過過過過過過過過過過過過過過過過過過過過過過

Certain regularities in proton magnetic resonance spectra of trisubstituted silanes. Izv. AN SSSR Ser.khim. no.10:1868-1871. 0 163:

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskon gosudamstvennom universitet, Institut khimicheskoy fiziki AN SSSR i Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

"KHIDEKEL', M. L., SHUB, B. R., RAZUVAYEV, G. A., ZADOROZHNYY, N. A., PONOMARENIO, V. A.

AND REMARKAND PROFESSION TO SECURITIES OF SE

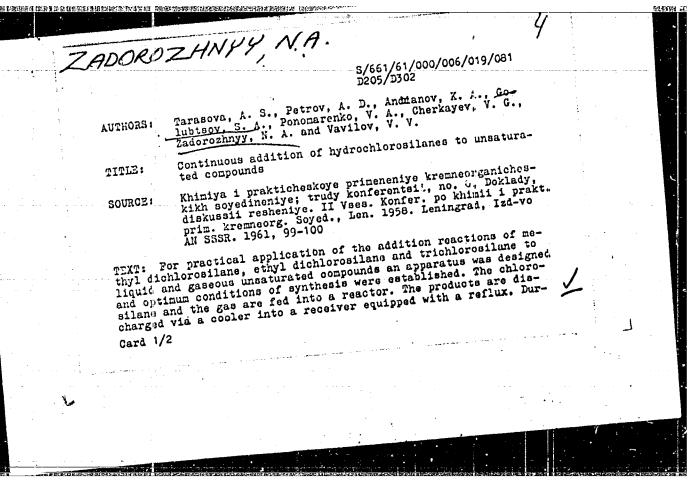
- 2,4,6-trim-(trimethylsilyl)-1-phenoxyl, a monomer radical relatively resistant to oxygen. Isv AN SSSR Ser Khim no. 4:776 Ap '64.

(MIRA 17:5)

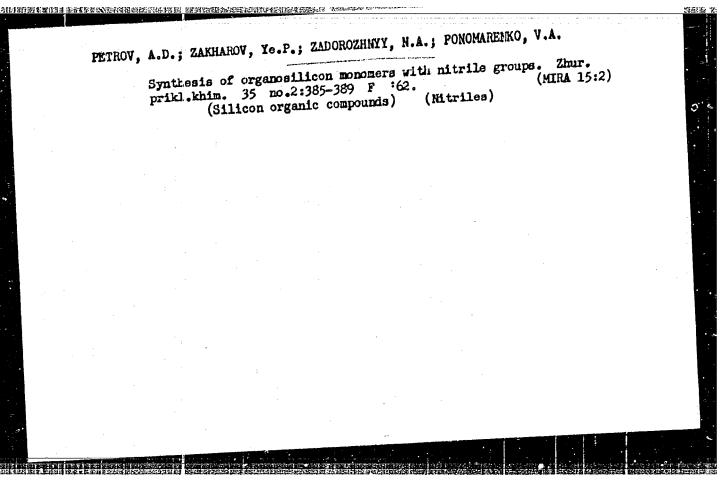
1. Institut khimicheskoy fiziki AN SSSR, Gor'kovskiy gosudarstvennyy universitet im. N. I. Lobachevskogo i Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

# "APPROVED FOR RELEASE: 03/15/2001

# CIA-RDP86-00513R001963410007-0



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		the renction of chlorosilane. The temperature range yield. No by-pro-	S/661/61/000/006/019, D205/D302  the reactor and cooler are cooled by water, reflux by brine. The arrangement was tested ethylene with methyl dichlorosilane and ethylene with methyl dichlorosilane and ethylene consoriments have shown that in the 35 - 20 to the reaction is unchanged giving a 65 - 75 to the reaction is unchanged giving a 65 - 75 to the reaction of reactor volume. The dichlorosilane/hr/l of reactor volume. The to automation owing to its insensitivity to the reaction of the reaction owing to its insensitivity to the reaction of the reactio	the on oldi- ooc obs		
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THE CHEST SECTION OF THE PARTY OF THE PARTY

AUTHORS:

Afanas'yev, V. A., Ponomarenko, V. A., and Zadorozhnyy, N. A.

TITLE:

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Adsorbability and catalytic activity of platinized carbon with regard to the addition of some silanes to unsaturated

compounds

PERIODICAL:

Doklady Akademii nauk SSSR, v. 136, no. 5, 1961, 1123-1126

TEXT: In previous publications (Refs. 1 to 3) on the addition of alkyland chloro-alkyl silanes on halogenated allyl ether it was found that the adsorption interaction of the reacting molecules with the catalyst surface has a great effect on the addition reaction. This effect was checked in the present study by investigating the capacity of platinized carbon (1% Pt) to addorb (C2H5)3SiH (I), CH3(C2H5)2SiH (II), C2H5(C3H7)2SiH (III), C138iH (IV), C2H5SiHC12 (V), and CH3(C2H5)SiHC1 (VI). The experiments were conducted in a continuous apparatus at atmospheric pressure and 20°C. The relative partial pressure of the vapors was varied between () and 0.5. Nitrogen served as carrier gas. Before the experiment, the catalyst was Card 1/7

s/020/61/136/005/021/032

Adsorbability and catalytic ...

heated to  $300^{\circ}$ C in a vacuum (approximately  $10^{-4}$  mm Hg). The pressure P<sub>s</sub> of the saturated vapor of I - VI was determined in the same apparatus.  $P_{\rm S}$  was determined from the equation  $P_{\rm S}/P = v/v$ . P is the total pressure (atmospheric pressure) in the system, w the volume of the substance vaporized per unit time, and V is the rheometrically measured total volume of the mixture. A linear increase of adsorption with increasing length of experiment was found for all alkyl silanes. Pg was calculated at  $v_1 = 1$  ml/min (velocity of silane vapor) and  $v_2 = 20$  ml/min (velocity of the carrier gas). The experimental data for the compounds I - VI are compared in Table 1 with the values calculated according to Haas and Newton and Antoine. Fig. 2 shows the adsorption isotherms at 20°C for P/Ps from O to O.5. A different adsorbability of the substances was found. Chloroalkyl silanes are adsorbed more intensively than alkyl silanes. A quantitative estimate of adsorbability was made by a comparison of the various areas  $\omega_0$  occupied by the molecules.  $\omega_0$  was calculated from the BET equation by using  $\omega_0$  for benzene (40  $^2$ ). These data were compared with the resolution of the with the reactivity of the compounds in the case of simultaneous addition to 1,1,2-trifluoro-2-chloro-ethyl allyl ether (Table 2). With increasing

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S/020/61/1;36/005/02·1/032 B004/B058

Adsorbability and catalytic ...

Card 3/7

ω<sub>0</sub> (decreasing adsorbability) of the silane, and increasing yield of its addition products resulted. For substances with equal ω<sub>0</sub>, the yield of addition products is equal, toc. The following interpretation is given for concurrent reactions: Owing to the increased adsorbability of chloro-alkyl silanes, highly active chloro-silyl radicals (Cl<sub>3</sub>Si and Cl<sub>2</sub>Sic<sub>2</sub>H<sub>5</sub>) alkyl silanes, highly active chloro-silyl radicals (Cl<sub>3</sub>Si and Cl<sub>2</sub>Sic<sub>2</sub>H<sub>5</sub>) form on the catalyst surface. They seize upon the hydrogen of the trialkyl silane under the formation of a less active trialkyl-silyl radical. Only the latter reacts with the unsaturated bond of the ether. Apart from this, however, also a direct addition of the chloro-silyl radical to the unsaturated compound takes place. With the concurrent addition reaction of (CH<sub>3</sub>)(C<sub>2</sub>H<sub>5</sub>)(Cl)SiH with Cl<sub>3</sub>SiH or C<sub>2</sub>H<sub>5</sub>SiHCl<sub>2</sub>, the higher adsorbability of (CH<sub>3</sub>)(C<sub>2</sub>H<sub>5</sub>)(Cl)SiH and its weak Si-H bond, as compared with the other two compounds, causes the predominant formation of the radicals (CH<sub>3</sub>)(C<sub>2</sub>H<sub>5</sub>)(Cl)Si on the catalyst surface. These radicals are, however, unable to seize upon the more strongly bound hydrogen of Cl<sub>3</sub>SiH or

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Adsorbability and catalytic ...

HILLING THE THEORY OF THE PROPERTY HER STEELS AND THE STEELS AND T

C2H5SiHCl2. Inspite of the stronger adsorbability of CH3C2H5ClSiH, a predominant addition of this compound to the unsaturated ether sets in in this case. This interpretation may also be valid for the forming radicals X\_SiCH\_2\_CH\_R (X = Cl, R = CH\_2OCF\_CFClH) There are 2 figures, 2 tables, and 5 Soviet-bloc references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D.

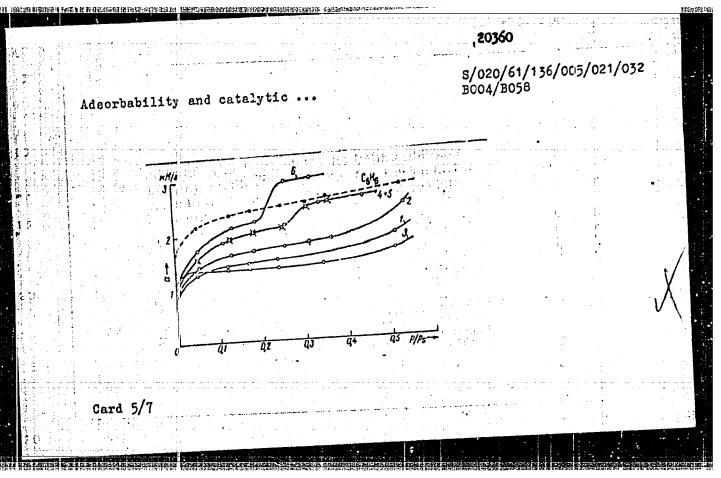
Zelinskiy, Academy of Sciences USSR)

September 17, 1960, by A. A. Balardin, Academician PRESENTED:

September 14, 1960 SUBMITTED

Card 4/7

CIA-RDP86-00513R001963410007-0" APPROVED FOR RELEASE: 03/15/2001



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	accor	ding	roint; 5) F <sub>B</sub> to Haas and N	ewton;	8) ca	lcula	ted ac	cording	to Anto	ine.	
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s/062/60/000/009/010/021 BO23/BO64

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2209, 1273, 1236

AUTHORS:

Ponomarenko, V. A., Cherkayev, V. G., and Zadorozhnyy, H. A.

TITLE:

Characteristics of the Addition of Alkyl Chloro Silicon Hydrides to Unsaturated Compounds in the Presence of

Platinu. Hydrochloric Acid

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh

nauk, 1960, No. 9; pp. 1610-1618

TEXT: The authors studied the course of the addition reaction with platinum hydrochloric acid being the catalyst. In the competitive addition of hydride silanes to ethylene in the presence of H2PtCl6, the

silane activity was determined both by the induction effect and the steric effect of the silyl groups. In this connection, the role of the steric factor is of special importance in contrast to the addition in the presence of platinum on carriers. It was found that the substituents exert a deactivating effect upon the capability of the double bond of the unsaturated compound to add silicon hydride in the presence of H2PtCl6

Card 1/3

Characteristics of the Addition of Alkyl Chloro S/062/60/000/009/010/021 Silicon Hydrides to Unsaturated Compounds in B023/B064 the Presence of Platinum Hydrochloric Acid

and Pt on cammiers. This is said to be due to the steric and induction effect of these substituents. The data known at present on the behavior of the silicon hydrides toward unsaturated compounds both in the presence of H2PtCl6 and also of Pt on carriers, are in a better agreement with the assumption of a radical than of an ionic mechanism. This process is characteristic because of the particular role of the catalyst surface or the forces of complex formation. A convenient and highly productive method of synthesizing a number of organosilicon compounds of practical importance was worked out on the basis of the addition reaction of silicon hydrides to insaturated compounds in the presence of H2PtCl6 and Pt on carriers. This includes: addition of methyl chloro silane to vinylidene fluoride: addition of methyl dichloro silane to trifluoro chloro ethylene;

fluoride; addition of methyl dichloro silane to trifluoro chloro ethylene; addition of methyl chloro silane to tetrafluoroethylene. Table 5 shows the conditions and results of the most characteristic experiments. The addition of silicon hydrides to olefines and acetylene in the presence of platinum hydrochloric acid is given in Table 6. N. S. Andreyev has taken the spectra of silicon hydrides for which the authors thank him. There are

Card 2/3

Characteristics of the Addition of Alkyl Chloro S/062/60/000/009/010/021

4 figures, 6 tables, and 19 references: 12 Soviet, 6 US, and 1 British.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D.

Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: April 20, 1959

Card 3/3

34974 S/080/62/035/002/014/022 D204/D302

11.9200

AUTHORS:

Petrov, A. D., Zakharov, Ye. P., Zadorozhnyv, N. A.

and Ponomarenko, V. A.

TITLE:

Synthesis of organosilicon monomers containing nitrile

groups

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 2, 1962, 385-389

TEXT: The authors studied the catalytic effects of bis(B-cyano-ethyl)-cyanamide (I), dimethylaminoacetonitrile (II) and dimethylaminoproionizrile (III) on the addition of unsaturated nitriles to trichlorosilane. Compounds II and III were found to be most effective, giving 60% yields of the substituted products (cyano-alcyl trichlorosilanes). Identification of the latter by infrared spectroscopy proved unsuccessful owing to the great similarity of the spectra. Addition reactions of Cl<sub>3</sub>SiH to CN and acrylonitrile with the above catalysts, as well as in the presence of H<sub>2</sub>PtCl<sub>6</sub> and henzoyl or tert.-butyl peroxides were studied. The Card 1/2

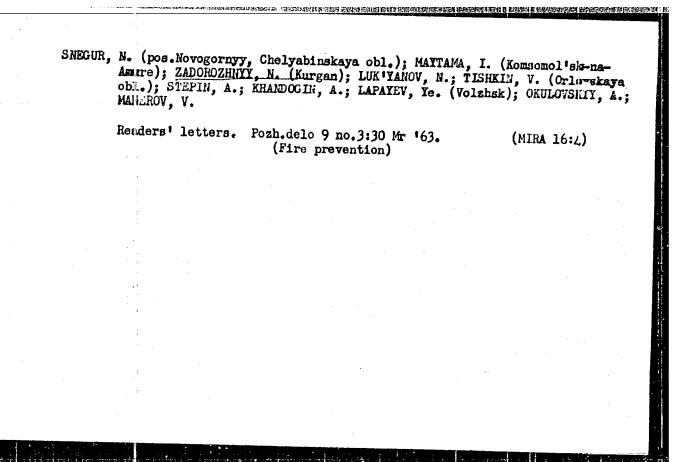
Synthesis of organosilicon ...

\$/080/62/035/002/014/022 D204/D302

last 3 catalysts proved less effective. The additions of Cl3SiH,  $CH_3SIHCl_2$ ,  $C_2H_5SIHCl_2$ ,  $(CH_3)(C_2H_5)$  SIHCl and  $(C_2H_5)_3$  SIH to  $CH_2 =$ = CHCH2CH2CN were also investigated in the presence of H2PtCl6. 50 - 80% yields were obtained. Physical characteristics of the products which are considered to be of interest for the production of silicone oils, are given together with a summary of the experimental procedure. There are 3 tables and 8 references: 3 Soviet. bloc and 5 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: J. V. Jex and J. E. McMahon, U.S. Patents 2,908.699, 2,908,700 and 2,908,701, Ch.A. 2169e (1960); J. C. Saam and J. L. Speier, J. Org. Chem., 24, 427, (1959); T. C. Williams, R. A. Pike and F. Fekete, Ind. Eng. Chem., 51, 939, (1959); C. E. Reed, Plast. World, 16, 8, (1958).

SUBMITTED: April 24, 1961

Card 2/2



ZADKOROZHNYY, A. A.

V. A. Ponomarenko, V. G. Cherkayev, G. V. Odabashyan, N. A. Zadorozhnyy and A. D. Petrov, "The Catalytic Adding of Hydrosilanes to Unsaturated Compounds."

Report presented at the Second All-Union Conference on the Chemistry and Fractical Application of Filicon-Organic Compounds held in Leningrad from 25-27 September 1958.

Zhurnal prikladnoy khimii, 1959, Mr 1, pp 238-240 (USSR)

PETROV, A.D.; ANDRIANOV, K.A.; GOLUBTSOV, S.A.; PUNOMARENKO, V.A.; CHERKAYEV, V.G.; TARASOVA, A.S.; VAVILOV, V.V.; ZADOROZHNYT, M.A.; P.)PELEVA, G.S.

> Continuous method of catalytic addition of hydrosilanes to unsaturated compounds. Whim.nauk i prom. 3 no.5:679-681 '58.

1. Institut organicheskoy khimii in. V.D. Zelinskogo. (Silane) (Unsaturated compounds)

Ladorozhnyy, N.A.

AUTHORS:

Ponomarenko, V. A., Cherkayev, V. G., Petrov, A. D., Zedorozhnyy, N. A.,

62-2-26/28

TITLE:

elfren:

H<sub>2</sub> PtCl<sub>6</sub> as Catalyst in the Addition Compound Reaction of Silane Hydrides With Unsaturated Compounds (Platinokhloristovodorodnaya kislota kak katalizator v reaktsii prisoyedineniya gidridsilanov k nepredel'nym soyedineniyam)

PERIODICAL:

Izvestiya AN SSSR Otdelemye Khimicheskikh Nauk, 1958, Nr 2, pp. 247-248 (USSR)

ABSTRACT:

In earlier reports (references 1-4) the authors already dealt with the problems of the selection of catalysts for the addition compounds reaction of silane hydrides with olefines as well as with the investigation of the reaction itself. A paper (reconclusions are in agreement with those obtained by the authors vermentioned paper consists of the disconvery of the increased comparison with other catalysts of a metal basis (eighthgroup). In the present paper the authors describe the performed addi-

Card 1/2

H2PtCl6 as Catalyst in the Addition Compound Reaction of Si- 62-2-26/28 lane Hydrides With Unsaturated Compounds

tion CH<sub>2</sub>SiHCl<sub>2</sub> with ethylene, propylene and acetylene in the presence of chloroplatinic acid (at room temperature) and that with CH<sub>2</sub>=CF<sub>2</sub> and CF<sub>2</sub>=CF<sub>2</sub> at 160°C. It was further found that in comparison with platinum on the carriers the chloroplatinic acid (in the case of CH<sub>2</sub>=CF<sub>2</sub>) increases the yield of the products of the addition by the 3-4 fold amount. In the case of CH<sub>2</sub>=CH<sub>2</sub>, CH<sub>2</sub>=CH-CH<sub>3</sub> and CH<sub>2</sub>CH an almost quantitative yield is obtained. There are 2 tables, and 7 references, 6 of which are Slavic.

ASSOCIATION:

Institute for Organic Chemistry imeni N.D. Zelinskiy AN USSR (Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR)

SUBMITTED:

October 12, 1957

AVAILABLE:

Library of Congress

Silane hydrides-Chemical reactions 2. Olefines-Chemical reactions 3. Chloroplatinic acid catalyst-Applications

Card 2/2

AFANAS YEV, V.A., PONOMAIENKO, V.A., ZADOROZHNYY, H.A.

Admorptive ability and catalytic activity of platinized charcoal in relation to certain silicon hydrides added to unsaturated compounds. Dokl.AN SSSR 136 no.5:1123-1126 F '61. (MIRA 14:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo ANSSSR. Predstavleno akad. A.A.Balandinym.

(Silane) (Adsorption) (Carbon, Activated)

	Am 18 electrode unit for Biul.tekhekon.inform.	molten-elag arcless electric no.9:25-27 '61. (Electric welding)	welding. (MIRA 14:9)
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ZADOROZHNYT, P.V.; SABODAZH, Ya.P.

Charges in the casing design of a selective switch. Razved.
i prom.geofiz. no.10:52 '54. (MIRA 13:2)

(Prospecting—Equipment and supplies)

ZALOROZHNY, P. G.

25780. ZALOROZHNY, P. G. Ratsionalizatoiya i izobretatel' stov na predpriya tiyakh sakharnoy promyshlemosti. Sakhar. Prom-st. 1949, No. 7, s. 6-9.

S0: Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963410007-0"

ZADOROZHNYY, P.G.

Aga.n on the assortment, quality and external appearance of liquor and vodka products. Spirt.prom. 20 no.2:15-16 '54. (MLRA 7:6) (Liquor industry)

SOBETSKAYA, S.[Sobecka, Z.], red.; BERNATSKIY, V.[Siernacki,V.], red.; KRYT, D., red.; ZADROZHNYY, T.[Zedrozny,T.], red.

[Chemical dictionary in 4 languages: English-German-Polish-Russian] Khimicheskii slovar' na 4 iazykakh: angliisko-nemetsko-pol'sko-russkom. Warsaw, Vydawnictwa naukovo-techniczne, 1962. 724 p. (MIRA 18:6)

和 经基础的经验基础和**的**和多数的基础和 **16 种间,是是是一个**的,是是是一个的,是是是一个的,我们是是一个的,我们是是一个的,我们是一个的,我们不是一个的,我们是一个的,我们就会会会会

BOGOMOL'NYY R. inzh.; ZADOROZHNYY, V., tekhnik

Drying ear corn in the granaries of the Nikolayevskaya Grain Milling Combine. Mukselev.prom. 27 no.5:23-24 My '61. (MIRA 14:6)

1. Nikolayevskiy mel'kombinat.
(Corn (Maize)—Drying)

YENIKOLOPOV, M. (g. Dusheti, Gruzinskaya SSR); MAZMANOV, V. (g.Dusheti, Gruzinskaya SSR); ZADOROZHNYY, V. (Duspropetrovsk); PUSHKARIV, A.; TABIKOV, V.

Prepairing for summer. Za rul. 20 no.4:23 Ap '62. (MINA 15:5) (Motorcycles—Maintenance and repair) (Automboiles—Maintenance and repair)

	In coop	eration	with p	practic	e. Sov	. torg.	34 r	10.8:9-12	Ag '( (HIRA	61. 14:8)	
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ZADOROZHNYY, V., kand. ekonom. nauk

Current problems. Sov. torg. 36 no.7:4-8 Jl 163.

(MIRA 16:8)

l. Dimektor Ukrainskogo nauchno-issledovatel'skogo instituta torgovli i obshchestvennogo pitaniya, Kiyev. (Retail trade)

## ZADOROZHNYT, V. Efficiency promotion month. Muk.-elev. prom. 22 no.8r30-31 kg '56. (MIRA 10:8) 1. Nikolayevskiy mel'nichnyy kombinat No.6. (Grain milling)

ZADOROZHNYY, Vasiliy Kirillovich [Zadoroshnyi, V.K.], kand.ekon.nauk; HHMAL'HITSKIY, D.G. [Khmel'nyts'kyi, D.H.], kand.ekon.nauk, glavnyy red.; DAH'KO, I.V., otv. za vypusk

[Socialist reforms and the rising standard of living of West Ukrainian workers] Sotsialistychni peretvorennia i grostannia dobrobutu trudiashchykh gakhidnykh oblastni URIR. Kyiv. 1959. 27 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh anan' Ukrains'koi RSR. Ser.l. no.34) (MIRA 13:1)

 Referent pravlinnya Tovaristva dlya poshirennya politichnikh i naukovikh snan' Ukrains'koi RSR (for Dan'ko). (Ukraine, Western--Economic conditions)

ZADOROZHNYY Vasiliy Kirillovich [Zadoroshnyi, V.]; PALAMARCHUK, Maksim Martynovich; DUBOVENKO, Ye. [Dubovenko, IE.], red.; LYAKKIN, V., tekhn.red.

[Achievements in the economic development of the western provinces of the Ukrainian S.S.R.] Uspikhy ekonomichnoho rozwytku sakhidnykh oblastcy Ukrains'koi RSR. Kyiv. Dersh. vyd. vo polit.lit-ry URSR, 1960. 171 p. (MIRA 13:5) (Ukraine, Western-Economic conditions)

EMP(e)/EMT(m) EW L 16790-66 SOURCE CODE: UR/0286/65/000/023/0041/0042 ACC 48: AP6012541 ANTIGORS: Rogozhin, Yu. V.; Syritakaya, Z. M.; Ushanova, A. V.; Mazurov, M. K.; and the sale of the second year, . 3. rear onk, Ya. 1. chair none TITLE: A mathod for preparing titanium-containing enamels and glassy crystalline materials. class 32, No. 176663 SOURCE: Byulleten' izotreteniy i tovarnykh znakov, no. 23, 1965, 41-42 TOPIC TAGS: titanium, enamel, sphene, perovskite, crystalline matter, specialized coating, cerrmic coating ABSTRACT: This Author Certificate presents a method for preparing titaniumcontacting as amols and glassy crystalline materials. To broaden the wase of ray the second that there is no more all properties of enamers and flasty SUBM DATE: 09Aug62 SUB CODE: 0", 13/

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963410007-0"

Card 1/1

UDC: 666.293.5

TERESHCHENKO, I.P.; MOSKVIN, O.I.; DARAGAN, M.V.[Darahan, M.V.];

ANISIMOV, V.P.; YARMOLINSKIY, M.R.[IArmolyns'ky1, M.R.];

BULGAKOV, P.S.[Bulhakov, P.S.]; KUTS, V.K.; KASHFUR, A.V.;

VASILENKO, G.K.[Vasylenko, H.K.]; KUKOLEV, V.D.[Kukoliev,

V.D.]; SIGOV, S.G.[Sihov, S.H., deceased]; NAGIRNYAK, P.A.

[Nahirniak, P.A.]; VETCHINOV, I.A.[Vietchynov, I.A.];

ZADOROZHNYY, V.K.; DROSOVSKAYA, L.I.[Drosovs'ka, L.I.];

SHKITINA, M.I.; PROSHCHAKOV, O.M.; MOKIYENKO, B.F.

[Mckiienko, B.F.]; GOLOVACH, A.V.[Holovach, A.V.];

IVANITSKIY, I.V.[Ivanyts'kyi, I.V.]; KOZAK, V.Ye.;

BORYAKIN, V.M., red.izd-va; NESTERENKO, O.O., glav. red.;

DAKHNO, Yu.B., tekhm. red.

[National income of the Ukrainian S.S.R. during the period of the large-scale building of communism] Natsional'nyi dokhod Ukrains'koi RSR v period rozhornutoho budivnytstva kommunizmu. Red.kol.: 0.0.Nesterenko ta inshi. Kyiv, Vydvo AN URSR, 1963. 333 p. (MIPA 16:12)

1. Akademiya nauk URSR, Kiev. Instytut ekonomiky. (Ukraine-Income)

# ZADOROZHNYY, V. Alliance of science and practice. Obshchestv.pit. no.9:24-26 S (63. 1. Direktor Ukrainskogo nauchno-issledovatel'skogo instituta torgovli i obshchestvennogo pitaniya.

ZADOROZHNYY, V.G.; KASHKAROV, 1.F.; KOPAYEV, A.A.; TIGHCHENKO, A.G.

Irdustrial adoption of the flotation of titanium-zirconium placer sands. TSvet. met. 38 no.8:7-12 Ag '65.

(MIRA 18:9)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963410007-0"

SAFFONOV, A.F.; SKRODSKIY, V.Ye.; ZADOROZHNYY, V.G.; DECTYARENKO, A.V.

Experimental industrial use of electromagnetic shall separators

for the dry separation of titanium-zirconium products. TSvet. mat.

37 no. 1,192-93 S '64.

(MTRA 18,7)

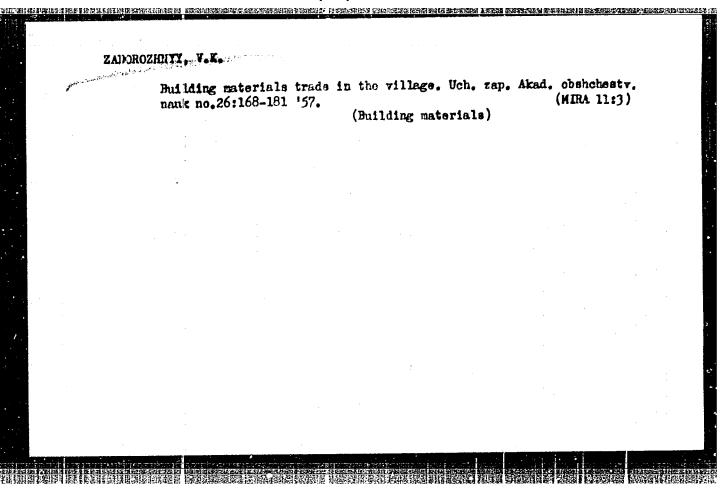
ZADOROZHNYY, V.K., kand. ekon . nauk, otv. red.; KASEVINA, A.I., kard. ekon. nauk, red.; MUZYKANSKAYA, L.Ye., otv. za vypusk; KANASHEVICH, O.A., tekhn. red.

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[Destermining the population's demand for goods] Opredelenie potrebnosti naseleniia v tovarakh; materialy. Kiev, Izd-vo Akadanauk USSR, 1962. 279 p. (MIRA 16:3)

1. Hauchnaya konferentsiya po voprosam opredeleniya potrebnomii naseleniya v tovarakh, Kiev, 1961. 2. Direktor Ukrair.skogo nauchno-issledovatel'skogo instituta torgovli i obshchastwennogo pitaniya (for Zadorozhnyy).

(Supply and demand)



KHITROV, V.A.; ZADOROZHNYY, V.P.; DUGIN, N.A.

Corrosive and electrochemical behavior of low-carbon steel in solutions of sulfuric and hydrochloric acids of various concentrations at temperatures of from 0 to 80°. Izv.Vor. gos.ped.inst. 47:5-17 64. (MIRA 18:11)

ZADOROZHNYY, V.P.; KHITROV, V.A.

是并非的制度和自用的。1955年1955年中发展的大学生作。但是是我们的意思的特殊的一种的特殊的,但是我们的自己的一种的特殊的一种的一种的一种的一种的一种的一种

Improved automatic hydrogen corrosion meter. Izv.Vor.gos.ped.inst. 47:105-108 '64. (MIRA 18:11)

ZADORCZHNYY, V.P.

Effect of temperature on the corrosion resistance and the effectrochemical behavior of low-carbon steel in hydrochloric acid solutions containing the PB-1/9 additive. Inv.Vor.gos.ped.inst. 47:123-128 \*64.

Effect of temperature on the corrosion resistance and the electrochemical behavior of 08 steel in hydrochloric acid solutions with potassium arsenite. Ibid.:129-134 (MIRA 18:11)

## "APPROVED FOR RELEASE: 03/15/2001

## CIA-RDP86-00513R001963410007-0

8/137/62/000/001/179/237 A006/A101

AUTHORS:

Khitrov, V. A., Zadorozhnyy, V. P.

TITLE

Corrosion kinetics of steel in sulfuric and hydrochloric acids at

various temperatures

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 80, abstract 11568

("]zv. Voronezhsk. gos. ped. in-ta", 1960, v. 29, 131 - 140)

The authors studied kinetics of self-diffusion processes of low TEXT carbon.steel in I and 7 n. H2SO4 and HCl solutions at 0, 20, 40, 60 and 80°C. At low temperatures the corresion process is retarded in time. At higher temperatures it is accelerated. The same effect is exerted by a higher concentration of the acid. Factors are mentioned which predatermine acceleration or inhibition in times of the corresion of steel in H\_SO4 and HCl solution. There are 15 references.

Author's summary

[Abstracter's note: Complete translation].

Card 1/1

3/137/62/000/001/192/237 A006/A101

AUTHORS :-

Zadorozhnyy, Ve-P., Khitrov, V. A.

唐中就到明显的特殊性能多数核心的特殊性的价格性的变形。 的复数的观别处理的经验证明的结验和确定的现在分词 少块多少型设施 化对抗 数据线 医细胞性脑膜 医眼视觉指现代 克利 **阿克兰**特别 其他是这种人一定是国际的企业的联系

TITLE:

On the corrosion rate of steel in acid media containing inhibitors

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 85, abstract 11598 ("Izv. Voronezhsk, gos. ped. in-ta", 1960; v. 29, 141 - 149)

The authors studied kinetics of corrosion processes of low carbon TEXT: steel at 20 and 60°C in 1 and 7 n. H2SO4 and HCl solutions, containing corrosion inhibitors. The curves obtained, describing the corrosion and corrosion rate of steel as functions of time under the experimental conditions, are classified into 3 groups which are characteristic of the processes: 1) curves retarded in time 2) curves whose course is initially retarded and then accelerated; 3) curves whose course is only accelerated. When the inhibitors investigated are added into H\_SO1 and H:1 solutions, the kinetic regularities of steel diffusion in the acids, are practically not changed. The authors describe the effect of temperature and of the composition and concentration of the acids on the form of the relations, corresion and corresion rate of steel as functions of time. Authors' summary [Abstracter's note: Complete translation]

Card 1/1